



FIG.1B

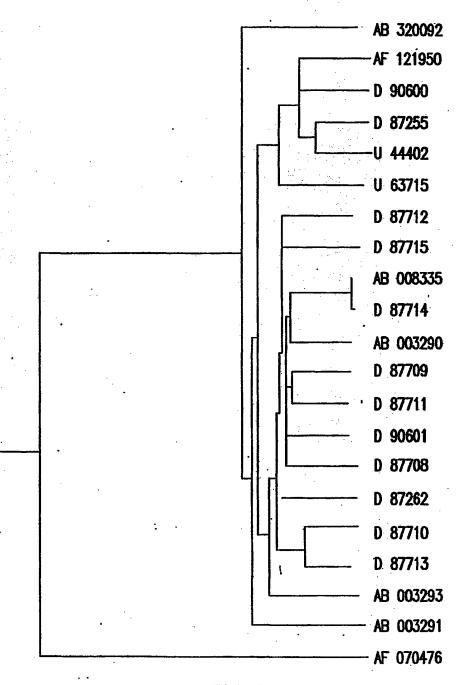


FIG.2

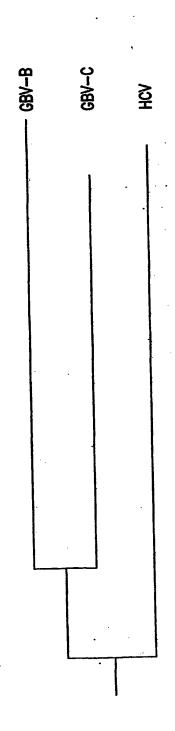
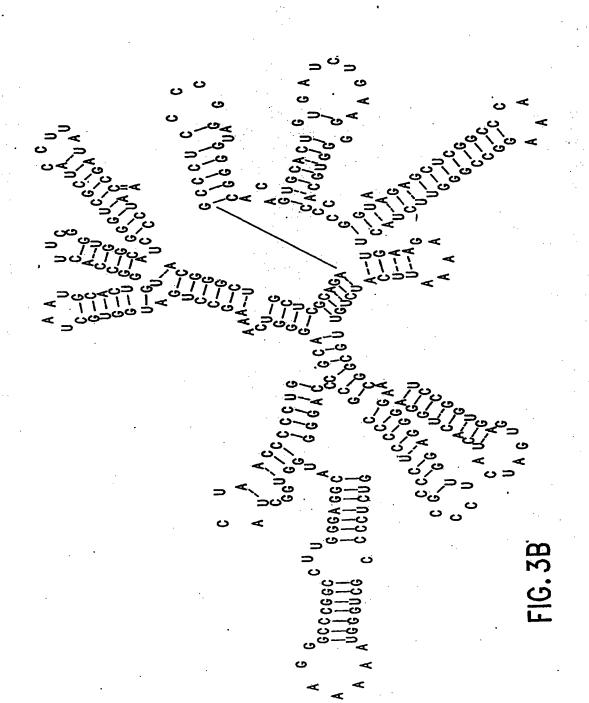
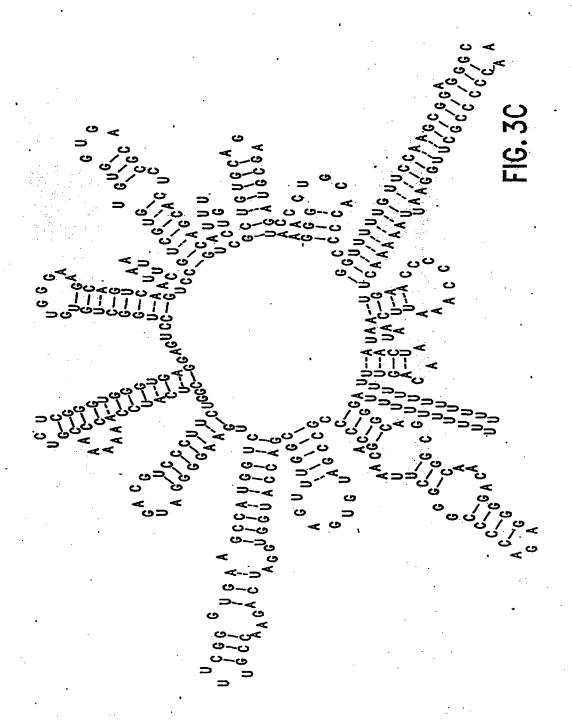
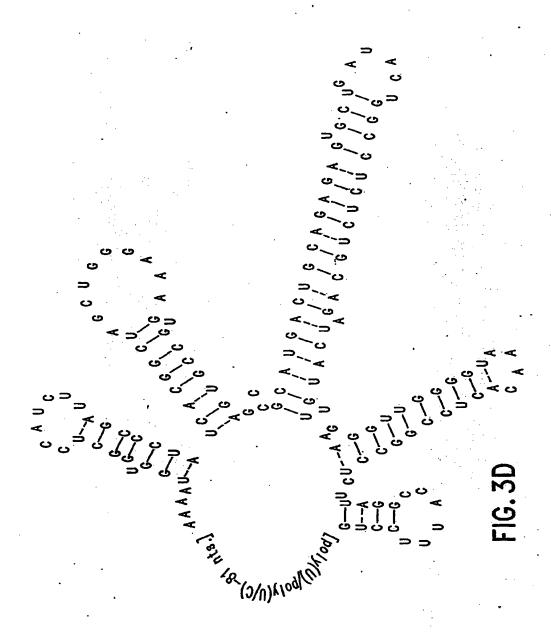


FIG. 3A







RELATIVE GEV-C RNA CONCENTRATION IN CELL CULTURE SUPERNATANT FLUID.

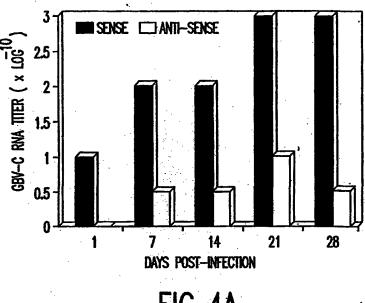


FIG. 4A

RELATIVE GBV-C RNA CONCENTRATION IN CELL LYSATE.

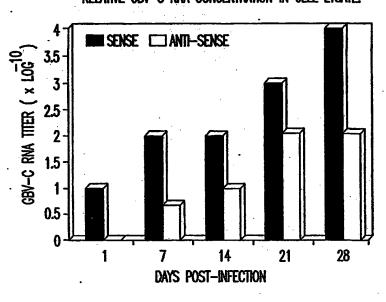
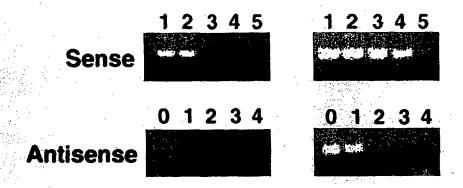
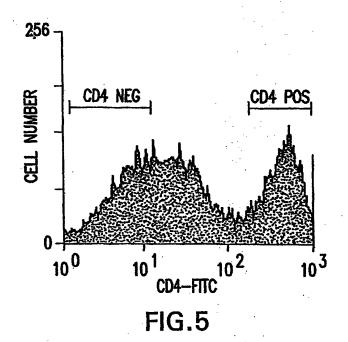
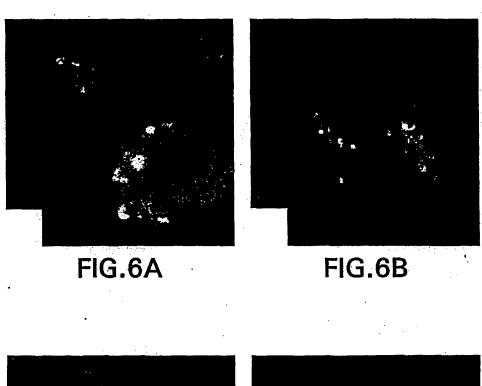


FIG. 4B







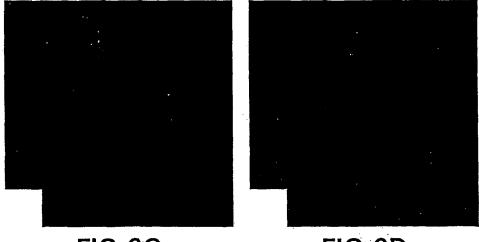


FIG.6C FIG.6D

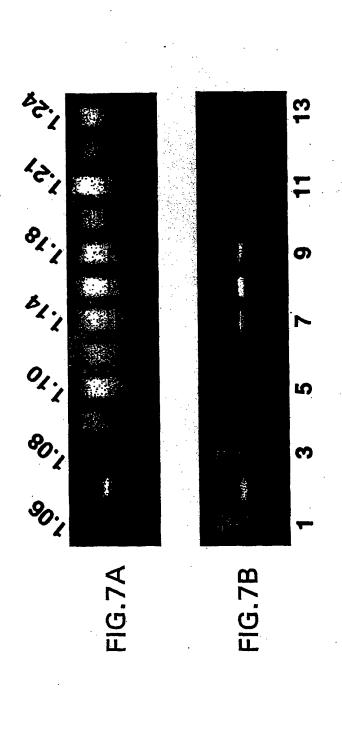




FIG.8A

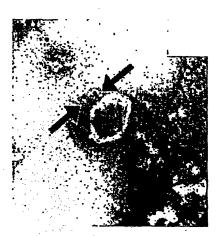


FIG.8B

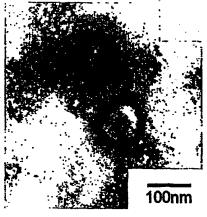


FIG.8C

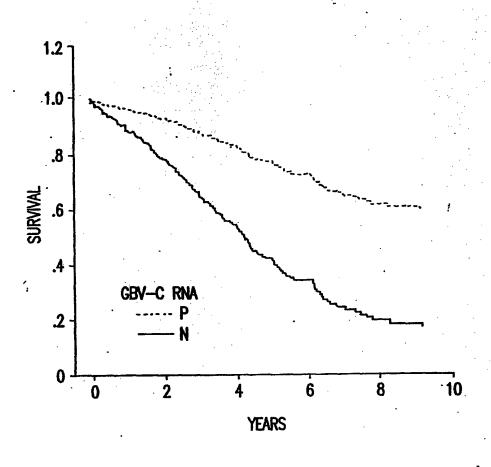
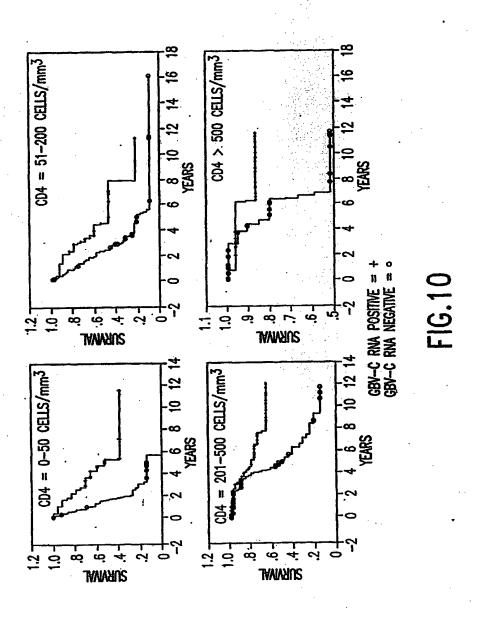
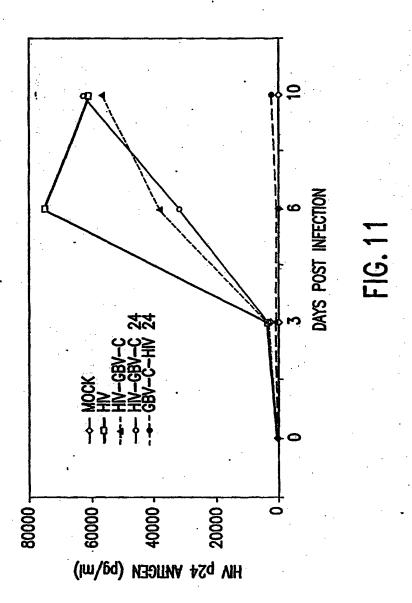
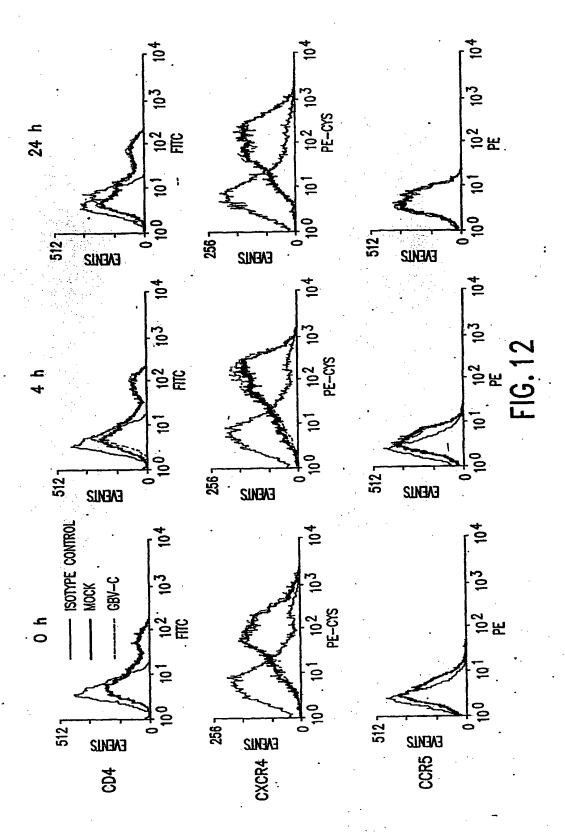
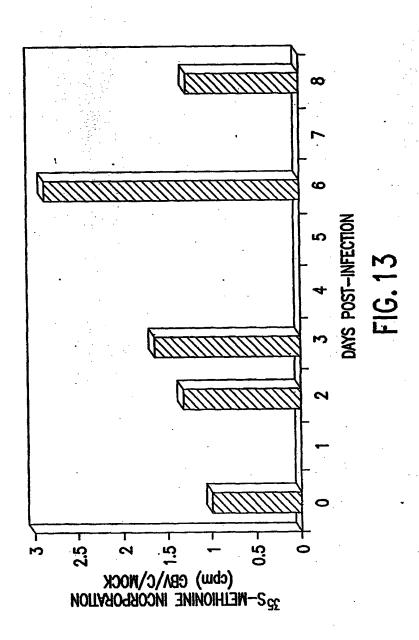


FIG.9









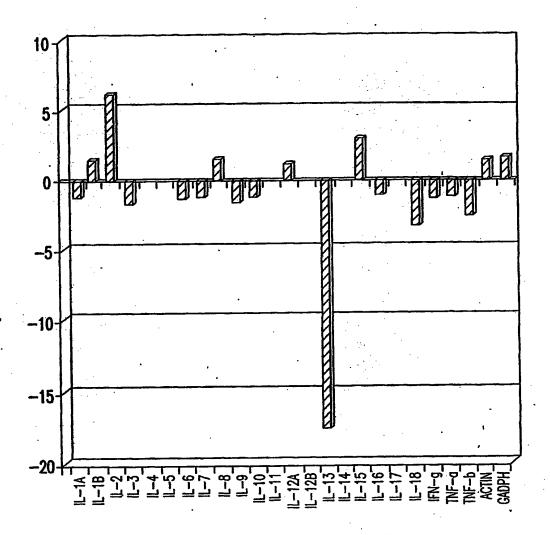


FIG. 14

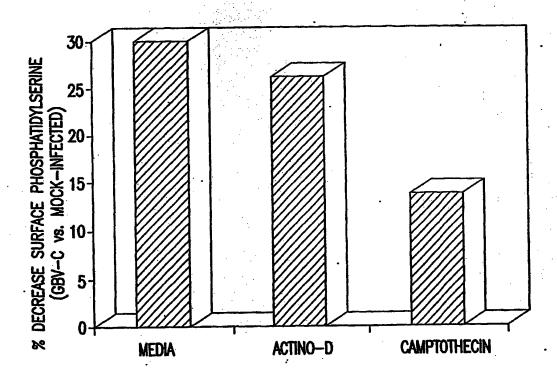
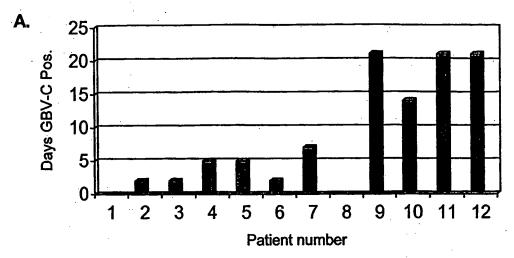
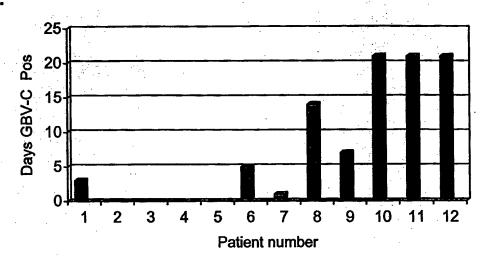


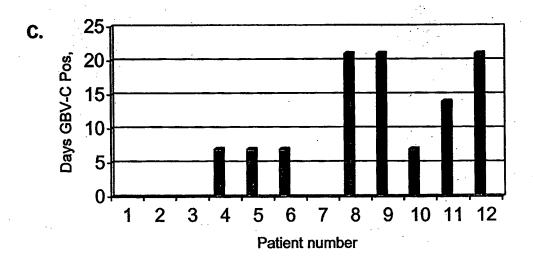
FIG. 15

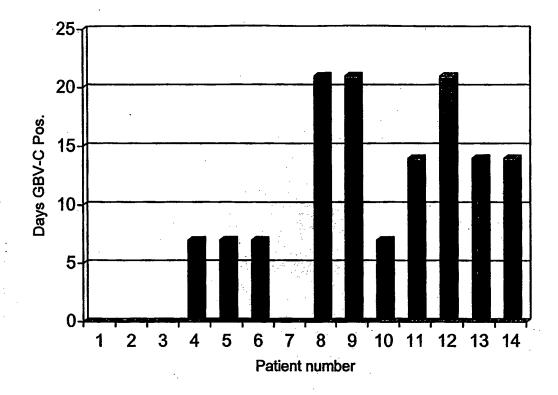
Figure 4.











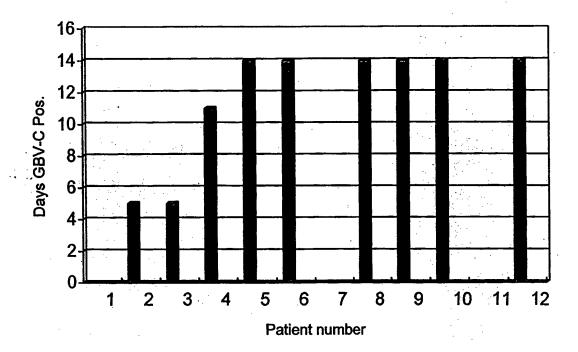
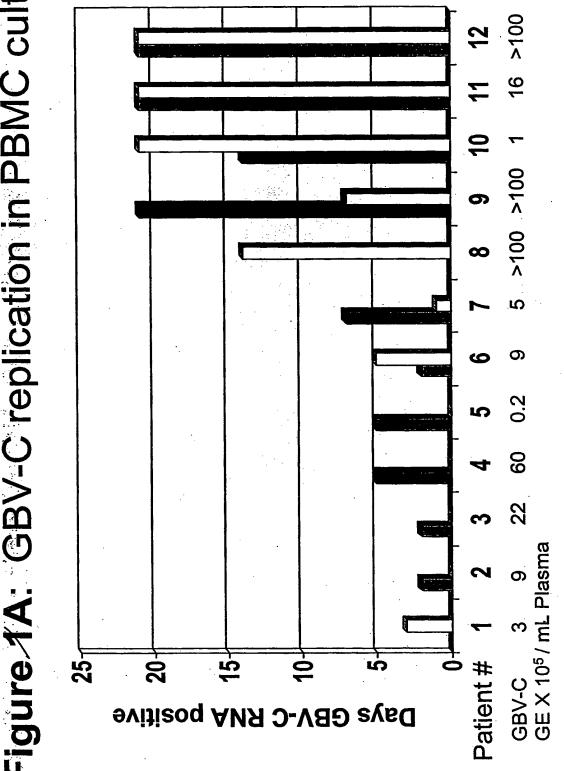


Figure 1A: GBV-C replication in PBMC cultures



Open bars = patient PBMCs cultured with healthy donor PBMCs Solid bars = patient PBMCs cultured without donor PBMCs

Figure 18: Plasma GBV-C infection in donor PBMCs

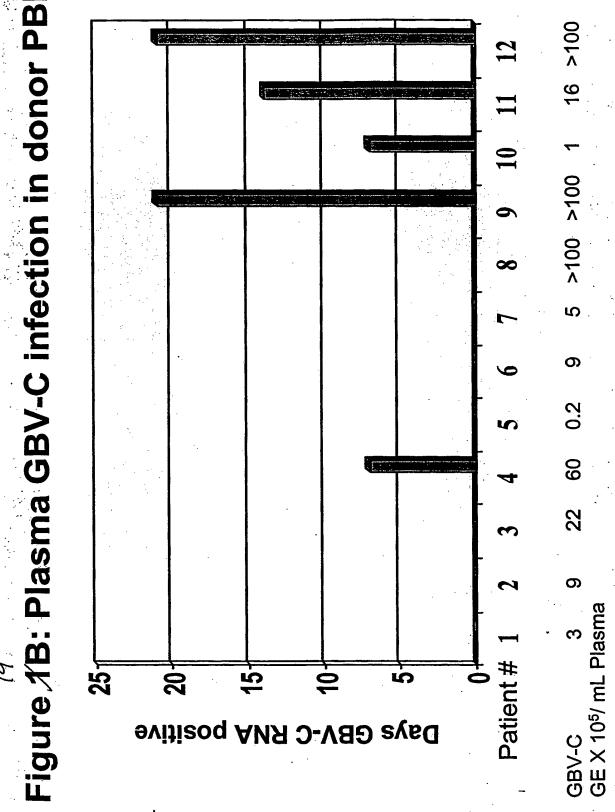


Figure 2: Sequence of full-length GBV-C genome (patient #12 – isolate 765)

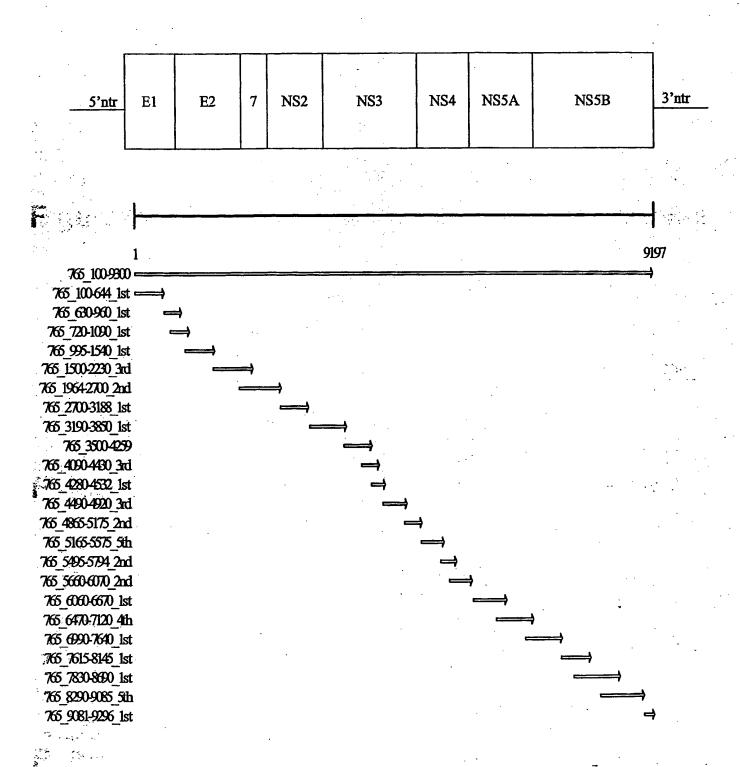


Figure 3: Phylogenetic Tree of GBV-C Nucleotide Sequences

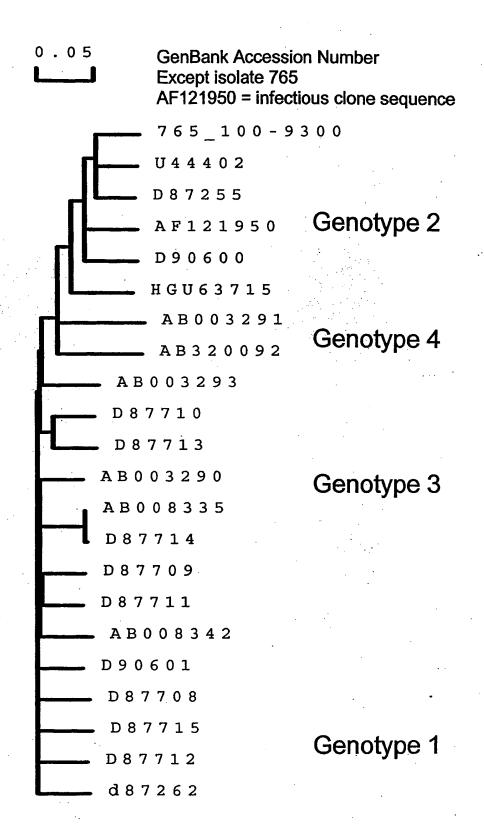
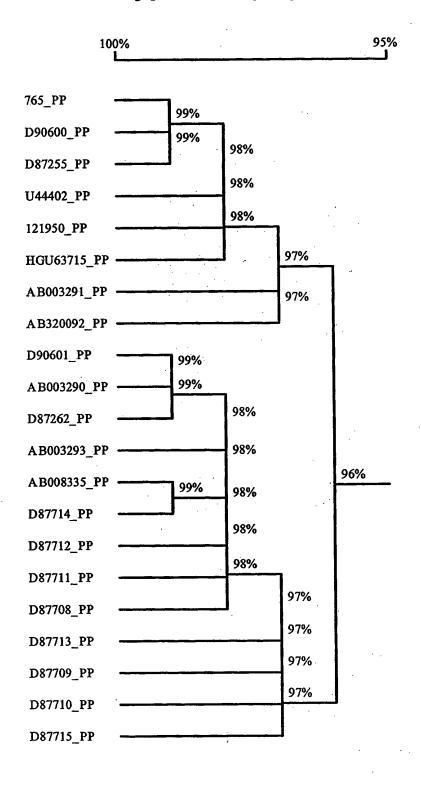


Figure 4: GBV-C Polyprotein (pp) Phylogenetic Tree



GBV-C phylogenetic relationships by protein coding region.

Figure 5A: E1

0.05

Figure 5C: NS2

0.05

```
765_ns2_

121950_ns2_

hgu63715_ns2_

u36380_ns2_

d90600_ns2_

u44402_ns2_

d87255_ns2_
```

Figure 5B: E2

0.05

```
765_e2_

____ u44402_e2_

d87255_e2_aa

___ 121950_e2_

d90600_e2_

___ hgu63715_e2_seq

___ u36380_e2_
```

Figure 5D: NS3

0.05

```
765_ns3_
d87255_ns3_
121950_ns3_
u44402_ns3_
hgu63715_ns3_
u36380_ns3_
d90600_ns3_
```

GBV-C phylogenetic relationships by protein coding region.

Figure 5E: NS4

Figure 5F: NS5A

0.05

0.05

```
765_ns4a_

d87255_ns4a_

u44402_ns4a_

121950_ns4a

hgu63715_ns4a_

u36380_ns4a_

d90600_ns4a_
```

```
765_ns5a

d87255_ns5a_

121950_ns5a_

u44402_ns5a_

hgu63715_ns5a_

d90600_ns5a_
```

Figure 5G: NS5B

0.05

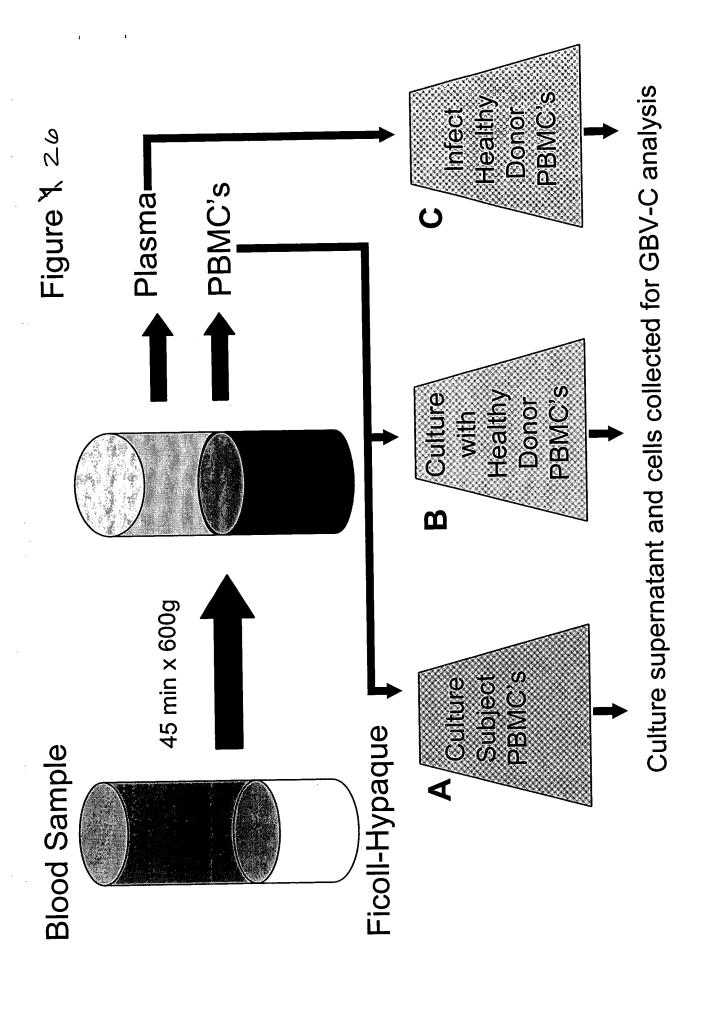
```
765_ns5b_
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d87255_ns5b_
hgu63715_ns5b_
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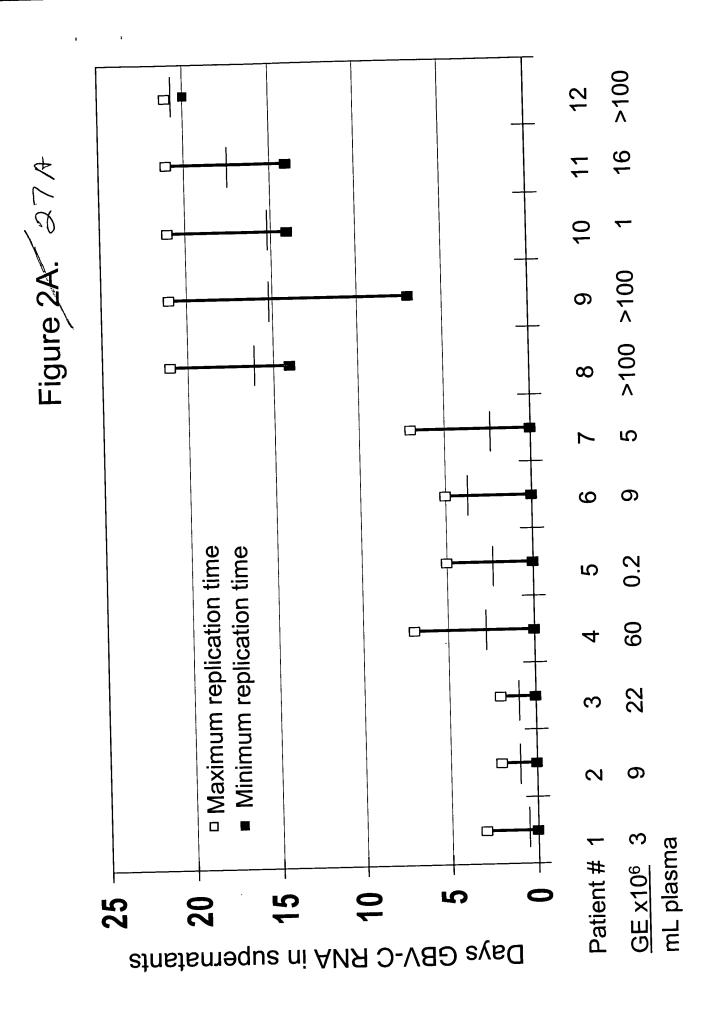
Figure 6: GBV-C 765 compared with 21 full-length GBV-C genomes: Unique amino acid mutations

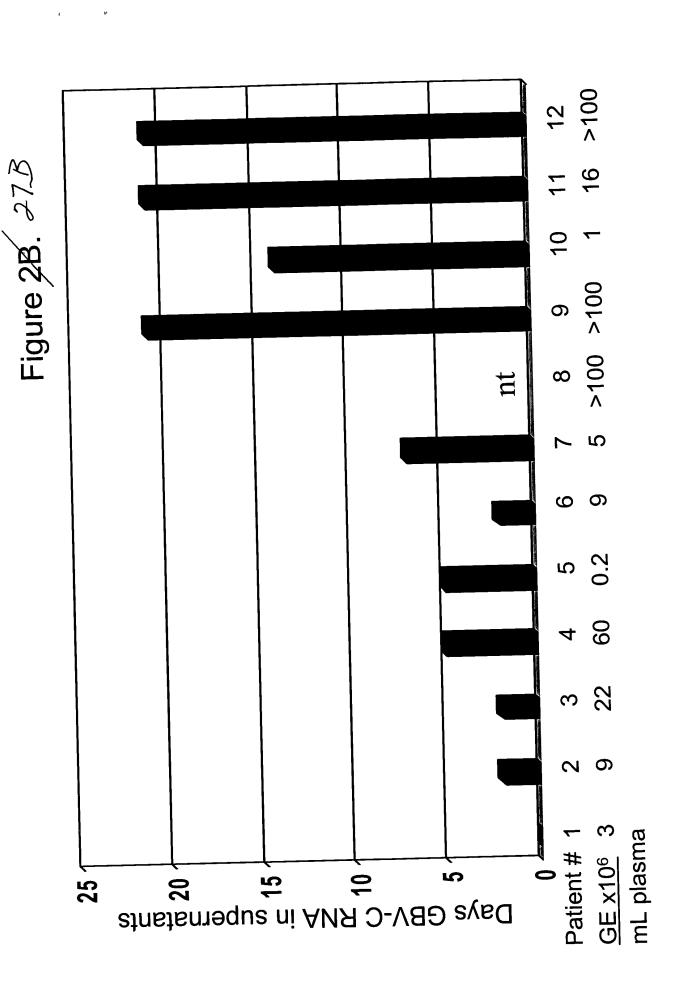
1		•	
3'ntr		, , <u>, , , , , , , , , , , , , , , , , </u>	23
5B		L → S 2819 S → P 2820 Y → F	78
NS5B	-	P→A 2665	
NS5A		V→M 2070 S→T 2071 1→L	2084 H→L
NSA 4SN			
	-	★♦ 0	
NS3	+	G→A 1065 R→E 1067 P→A	1076
NS2	←	Ľ↓F 740	
7			
E2	-	Q>R 294	
<u> </u>			
<u> </u>			
5'ntr		. •	

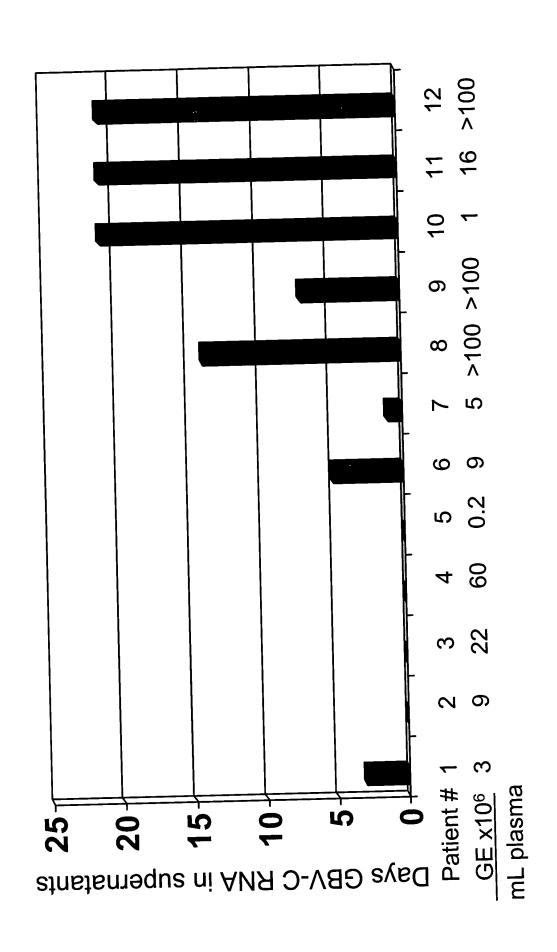
Figure 7: Amino acid substitutions in NS5A region of 765 vs. AF121950

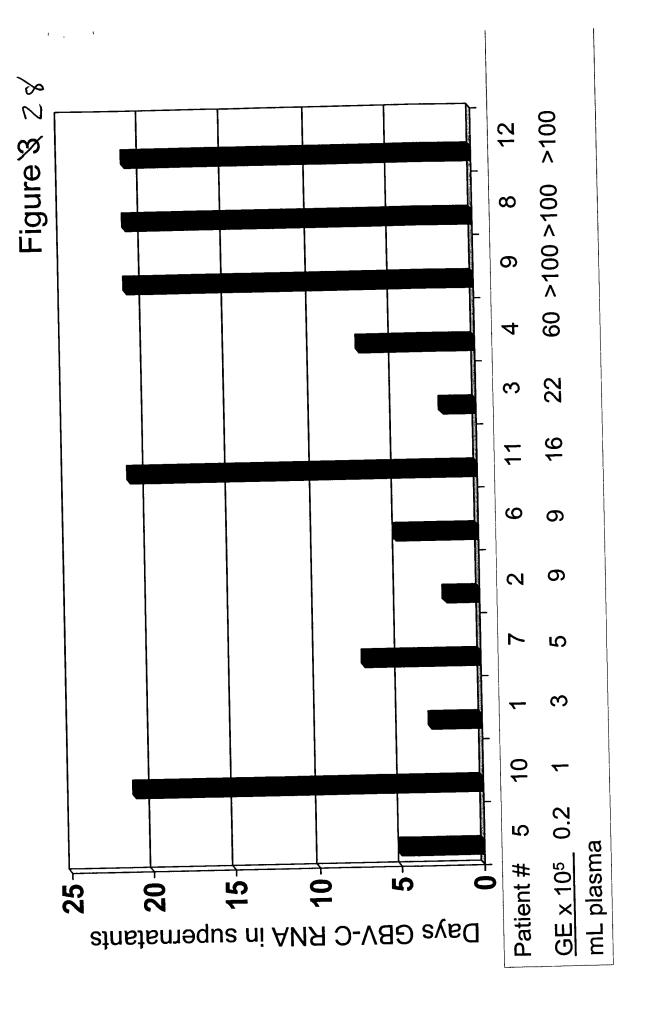
121950 VALVNREPKVDEVQVGYVWDLWEWIMRQVRMVMARLRALCPVVSLPLWHCGEGWSGE
765
121950 WLLDGHVESRCLCGCVITGDVLNGQLKDPVYSTKLCRHYWMGTVPVNMLGYGE1SPLLA
121950 SDTPKVVPFGTSGWAEVVVTPTHVVIRRTSAYKLLRQQILSAAVAEPYYVDGIPVSWDADA
350 RAPAMVYGPGQSVTIDGERYTLPHQLRLRNVAPSEVS
121950 AAALQAIENAARILEPHIDVIMEDCSTPSLCGSSREMPVWGEDIPRTPSPALISV1ESSPUE
G9/
121950 KTPSVSSSQEDTPSSDSFEVIQESETAEGEESVFNVALSVLKALFPQSDATRKLTVKMSC
765
950
765

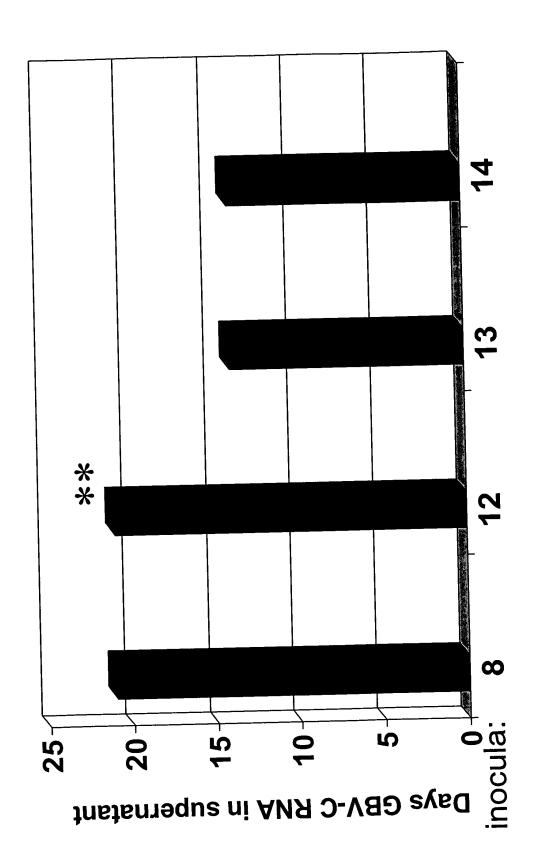


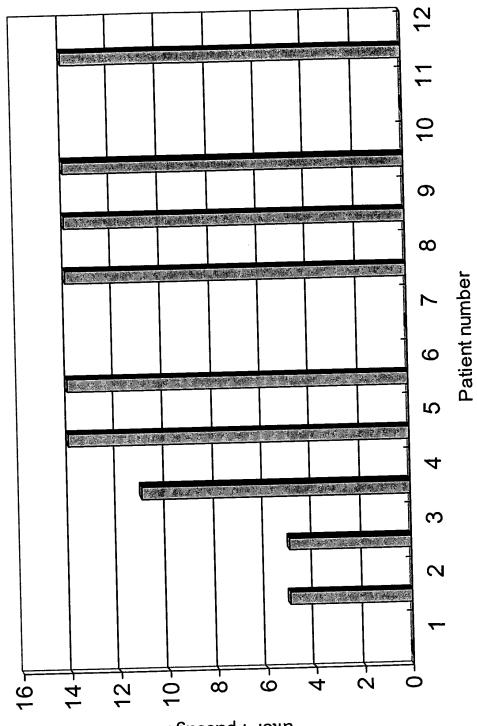












Days GBV-C Detected in Culture supernatant after 4 passages.

Figure 8 31

Plasma GBV-C TCTGGGCAAAGTGTCACCATTGACGGGAGCGCTACCCTTGCCGCACCAGTTGCGGCTCAGGAACGTGGCGCCCTCTGAGGTTTCATCCGAGGTGT TCTGGGCAAAGTGTCACCATTGACGGGAGCGCTACCCTTGCCGCACCAGTTGCGGCTCTCAGGAACGTGGCGCCCTCTGAGGTTTCATCCGAGGTGT TCTGGGCAAAGTGTCACCATTGACGGGAGCGCTACCACTTGCCGCACCTTGCGCACCTCTGAGGTTTCATCCGAGGTTTCATCCGAGGTGT Day 14 PBMC supernatant GBV-C C	B. Plasma GBV-C CCATAGACATTGGGACGGAGACTGAGGATTCAGAACTGACTG	Day 14 PBMC supernatant GBV-C A STATE OF THE STATE OF T
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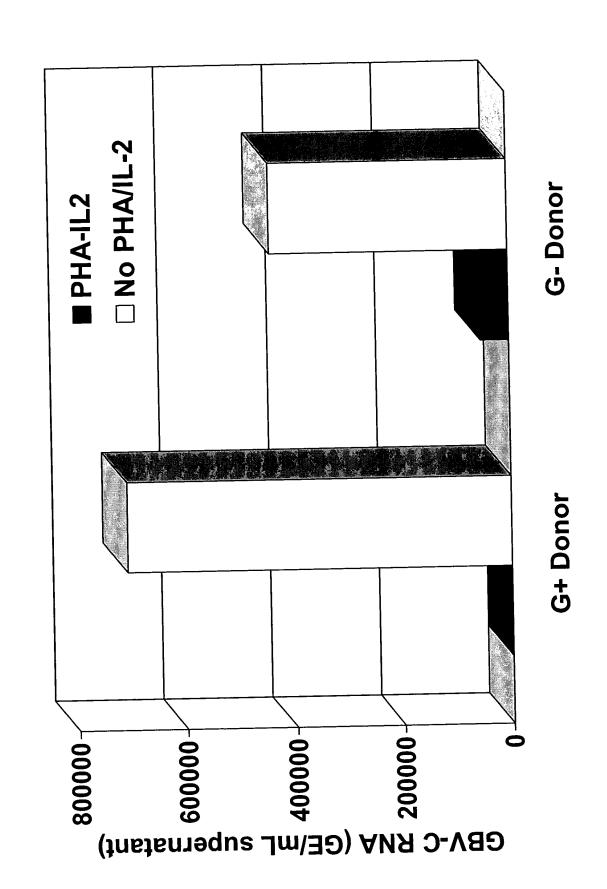
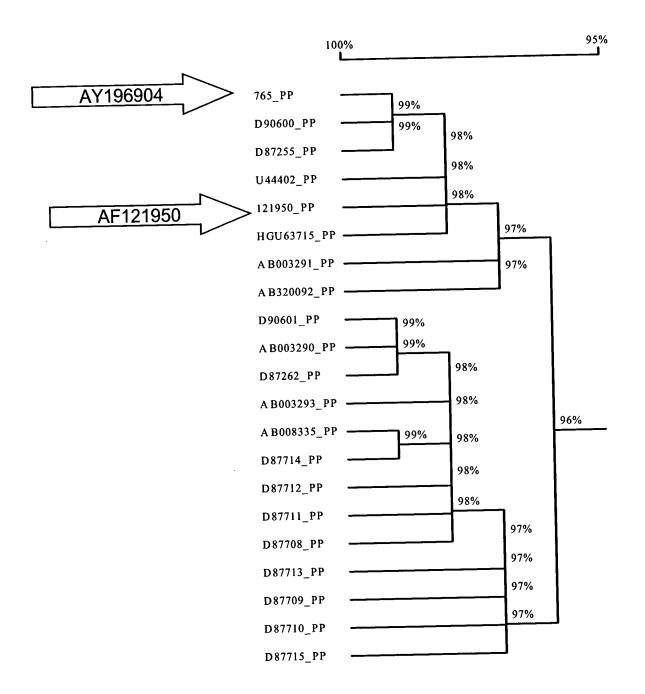


Figure 8, 33



FOYTPNORIREMLKL AF121950 AY196904 AA 2457

GIPGAFPLSPPYMGVV ----G-SD---E AF121950 AY196904 AA 2791

21950	VALVNREPKVDEVQVGYVWDLWEWIMRQVRMVMARLRALCPVVSLPLWHCGEGWSGE
96904	
21950	WLLDGHVESRCLCGCVITGDVLNGQLKDPVYSTKLCRHYWMGTVPVNMLGYGETSPLLA
96904	!!;!;!;!!!!!!!!!!!!!! 第 一;!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
21950	SDTPKVVPFGTSGWAEVVVTPTHVVIRRTSAYKLLRQQILSAAVAEPYYVDGIPVSWDADA
96904	
	Region homologous to the HCV ISDR
21950	RAPAMVYGPGQSVT1DGERYTLPHQLKLKNVAFSEVSSEVS1D1G1E1EDSEL1EADD11A
96904	
21950	AAALQAIENAARILEPHIDVIMEDCSTPSLCGSSREMPVWGEDIPRTPSPALISVTESSPDE
96904	S
.21950	KTPSVSSSQEDTPSSDSFEVIQESETAEGEESVFNVALSVLKALFPQSDATRKLTVKMSCC
196904	
121950	VEKSVTRFFSLGLTVADVASLCEMEIQNHTAYCDKVRTPLELQVGCLVGNELT
196904	